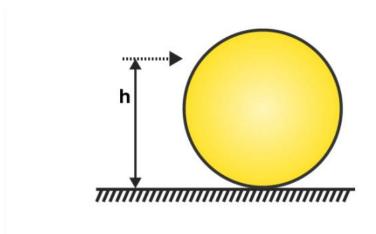
7.18. A uniform sphere of mass m and radius R is placed on a rough horizontal surface. The sphere is struck horizontally at a height h from the floor.



Match the following

a) h = R/2	i) sphere rolls without slipping with a constant velocity and no loss of energy
b) h = R	ii) sphere spins clockwise, loses energy by friction
c) h = 3R/2	iii) sphere spins anti-clockwise, loses energy by friction
d) h = 7R/5	iv) sphere has only a translational motion, loses energy by friction

Answer:

- a) matches with iii)
- b) matches with iv)
- c) matches with ii)
- d) matches with i)